

Monitoring Data Record

Project Title: NC 16 in Lucia (R-2206A) COE Action ID: 200031430
 Stream Name: unnamed tributary to the Catawba River DWQ Number: 001232
 City, County and other Location Information: Sta. 6+60 Ramp CA RT on NC 16 in Lucia
 Date Construction Completed: N/A Monitoring Year: (3) of 5
 Ecoregion: _____ 8 digit HUC unit 03050101
 USGS Quad Name and Coordinates: _____

Rosgen Classification: _____

Length of Project: 738' Urban or Rural: Rural Watershed Size: _____
 Monitoring DATA collected by: M. Green and J. Young Date: 1/30/07

Applicant Information:

Name: NCDOT Roadside Environmental Unit
 Address: 1425 Rock Quarry Road Raleigh, NC 27610
 Telephone Number: (919) 861-3772 Email address: mlgreen@dot.state.nc.us

Consultant Information:

Name: _____
 Address: _____
 Telephone Number: _____ Email address: _____

Project Status: Complete

Monitoring Level required by COE and DWQ (404 permit/ 401 Cert.): Level 1 ~~2~~ ~~3~~

Monitoring Level 1 requires completion of *Section 1, Section 2 and Section 3*

Permit States: NCDOT shall perform the following components of Level I monitoring twice each year for the 5 year monitoring period (summer and winter): Reference photos, plant survival, and visual inspection of channel stability. If less than two bankfull events occur during the first 5 years, NCDOT shall continue monitoring until the second bankfull event is documented. The bankfull events must occur during separate monitoring years. In the event that the required bankfull events do not occur during the 5 year monitoring period, the USACE, in consultation with resource agencies, may determine that further monitoring is not required.

Section 1. PHOTO REFERENCE SITES

(Monitoring at all levels must complete this section)

Total number of reference photo locations at this site: 4 reference points, 2 photos at each
Dates reference photos have been taken at this site: 5/20/04, 11/2/04, 5/23/05, 2/8/06,
7/18/06, 1/30/07

Individual from whom additional photos can be obtained (name, address, phone):

Other Information relative to site photo reference: _____

If required to complete Level 3 monitoring only stop here; otherwise, complete section 2.

Section 2. PLANT SURVIVAL

Attach plan sheet indicating reference photos.

Identify specific problem areas (missing, stressed, damaged or dead plantings):

Estimated causes, and proposed/required remedial action:

ADDITIONAL COMMENTS: Vegetation is dormant at this time. Hardwood vegetation noted onsite includes: sweetgum, northern red oak, tulip poplar, mimosa, river birch, black willow, tag alder, silky dogwood, and sycamore. Other vegetation onsite included: *Juncus* sp., fennel, lespedeza, horse-neetle, sedge, and *Panicum* sp. The right bank of the stream that was replanted between Sta. 6+70 and 6+86 has revegetated and is stabilized at this time.

If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. Physical measurements of channel stability/morphology will not be required. Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

This is the third year of monitoring at the UT Catawba River stream relocation and the streambanks are stable throughout the entire site. The right bank between Sta. 6+70 and 6+86 has stabilized since the replanting occurred back in February 2006. NCDOT will continue to monitor this onsite stream relocation.

Date Inspected	Station Number	Station Number	Station Number	Station Number	Station Number
Structure Type					
Is water piping through or around structure?					
Head cut or down cut present?					
Bank or scour erosion present?					

NOTE: Attach separate narrative sheets to each monitoring report describing/discussing the overall monitoring results. Include the identification of specific problem areas/channel failures, estimated cause and proposed/required remedial action. This should include a brief discussion of any parameter that has changed significantly from as-built.

R-2206A



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6

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Photo 7



Photo 8